

Appendix D

**ADEM Closure Assessment Report for Parcel 133(7),
Former Gas Station,
Building 1494, at Former Motor Pool Area 1500,
Parcel 94(7), Anomaly A-1(2)**

ADEM UST CLOSURE SITE ASSESSMENT REPORT

(Use a Separate form for a group of tanks in each tank pit)

FACILITY I.D. NO.:	NA	DATE OF THIS REPORT:	8/2/00
<hr/>		<hr/>	
INCIDENT NO. (If applicable).	UST __ - __ - __	UST OWNER:	U.S. Army
FACILITY COUNTY:	Calhoun	ADDRESS:	Ft. McClellan Anniston, AL
FACILITY NAME:	Parcel 133	CONTACT NAME:	
LOCATION:	A-1(2)	CONTACT PHONE #:	
ADDRESS:	Ft. McClellan Anniston, AL		

NAME OF CONTRACTOR USED TO CLOSE (REMOVE)	IT Corporation
NAME OF CONSULTANT CONDUCTING ASSESSMENT:	IT Corporation
NAME OF LABORATORY USED:	Severn Trent Laboratories

PRIOR TO BEGINNING CLOSURE, THE CONTRACTOR SHOULD BECOME FAMILIAR WITH ALL CLOSURE PROCEDURES IN AMERICAN PETROLEUM INSTITUTE (API) BULLETIN 1604, "REMOVAL AND DISPOSAL OF USED UNDERGROUND PETROLEUM STORAGE TANKS" AND API BULLETIN 2015 "CLEANING PETROLEUM STORAGE TANKS". THESE API BULLETINS ARE AVAILABLE FROM THE AMERICAN PETROLEUM INSTITUTE.

NUMBER OF TANKS CLOSED:	<u>NONE (none present)(previously removed; no record)</u>
NUMBER OF TANKS REMAINING AT SITE:	<u>NONE</u>
CLOSURE DATE:	<u>8/3/00</u>

UNIQUE TANK #:	<u>UNK</u>	<u>UNK</u>			
TANK SIZE:	<u>UNK</u>	<u>UNK</u>			
TANK CAPACITY:	<u>10,000 gal</u>	<u>10,000 gal</u>			
TANK AGE:	<u>UNK</u>	<u>UNK</u>			
DATE TANK LAST USED:	<u>UNK</u>	<u>UNK</u>			
SUBSTANCE STORED:	<u>Gasoline</u>	<u>Diesel</u>			
TYPE OF PRODUCT PIPING:	<u>2" STEEL</u>	<u>2" STEEL</u>			
(Pressurized/Suction)	<u>UNK</u>	<u>UNK</u>			
FARM TANK:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HEATING OIL TANK:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. COMPLETE THE FOLLOWING SECTION FOR ALL CLOSURES:

a. Provide the results of a 500 ft. survey for domestic water supply wells in the following table and place their locations on the attached site map:

Name of Owner of Domestic Water Supply Well	Distance from UST Site	Depth of Well	Status: Active or Inactive?
NONE	NA	NA	NA

b. Provide the results of a 1,000 ft. survey for public water supply wells in the following table and place their locations on the attached site map:

Name of Owner of Public Water Supply Well	Distance from UST Site	Depth of Well	Status: Active or Inactive?
NONE	NA	NA	NA

c. Is the UST site located in a delineated wellhead protection or source water area?

YES
☐

NO
☒

d. Are there any public water supply surface water intakes within 500 ft. of the UST site?

YES
☐

NO
☒

If yes, locate the intake on the attached site map.

NOTE: If an active domestic water supply well or an active public water supply well is located within 500 ft. or 1,000 ft. respectively of the UST site, or if the answer to 1c. or 1d. is Yes, the Department may require groundwater sampling to occur at the UST site. If the groundwater sampling is not performed by the owner/operator during the closure site assessment, the Department may require that groundwater sampling occur as part of a Preliminary Investigation.

Groundwater sampling remains a requirement of the closure site assessment when shallow groundwater is present or when performing an in-place closure site assessment.

e. Indicate the current on-site land use and the most likely future land use:

Current On-Site Land Use		Most Likely Future On-Site Land Use	
Residential	<input type="checkbox"/>	Residential	<input type="checkbox"/>
Commercial	<input type="checkbox"/>	Commercial	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>	Other	<input checked="" type="checkbox"/>
Describe: Military Installation (being closed)		Describe: Active Recreational	

f. Describe the current off-site land use within 500 ft of the UST site. State whether the area, in general, is residential, commercial, mixed residential/commercial or other:

North:	Primarily woodland and/or undeveloped	
	Northeast:	
	Northwest:	
South:	Primarily woodland and/or undeveloped	
	Southeast:	
	Southwest:	
West:	Primarily woodland and/or undeveloped	
East:	Primarily woodland and/or undeveloped	

COMPLETE THE FOLLOWING SECTIONS AS APPROPRIATE BASED ON THE TYPE OF CLOSURE CONDUCTED:

2. TANK CLOSURE BY REMOVAL: Tanks previously removed, not found during investigative dig based on geophysical information.

- a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.
- b. Attach plan and sectional views of the excavation and include the following:
1. All appropriate excavation dimensions.
 2. All soil sample locations and depths using an appropriate method of identification.
 3. Location of areas of visible contamination.
 4. Former location of tank(s), including depth, with tank Identification Number.

- c. Is the groundwater more than 5 feet below the bottom of the excavation? YES ☒ NO ☐
- If no, provide the depth from the ground surface to the groundwater table. Feet: _____

Indicate method used to determine water table depth:

- | | YES | NO |
|---|-------------------------------------|--------------------------|
| 1. Excavation extended 5 feet below base of pit: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Boring or monitoring well: | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Topographic features (Method must be approved by ADEM prior to use): | <input type="checkbox"/> | <input type="checkbox"/> |

- d. Was there a notable odor found in the excavation? YES ☐ NO ☒

If yes,

(1) The odor strength was (mild) (strong) (other) describe: _____

(2) The odor indicates what type of product: (gasoline)(diesel)
(waste oil) (kerosene) (other) describe: _____

- e. Was there water in the excavation? YES ☐ NO ☒

If yes, how was it handled?

- | | YES | NO |
|--|--------------------------|--------------------------|
| 1. One time discharge to sanitary sewer with local approval? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Hauled to facility capable of treating constituents of petroleum products in water? | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Hauled to local POTW with local approval? | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Treated on-site with NPDES approved discharge? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Other? Explain: _____ | | |

- f. Was free product found in the excavation? YES ☐ NO ☒

If yes,

ADEM UST CLOSURE SITE ASSESSMENT FORM

1. How was free product handled? Describe: _____
2. What was the measured thickness of free product? _____

- YES NO
- g. Were visible holes noted in the tank(s)? ☐ ☐ NA

If yes,
Indicate which tanks(s) by the Unique Tank Number: _____

Also, describe the location(s) and provide general description as to the size and number of holes for above noted tanks, (Example: 3 square feet of pinholes or 3 inch diameter hole):

No tank found. Anomaly investigated (suspected as potential UST) was determined to be

Two 2"-diameter, 9' long product/vent piping buried approx. 1.5' below grade.

- h. Describe the soil type and thickness of all soil layers encountered in the excavation:
Light brownish-red silty, gravelly, clayey SAND (backfill).

- YES NO
- i. Was the excavation backfilled? ☒ ☐

If yes, provide the date of backfilling: 8/4/00.

DO NOT BACKFILL WITH MATERIAL THAT HAS OR POTENTIALLY HAS A TPH OF GREATER THAN 100 PPM!

3. TANK CLOSURE WITHOUT REMOVAL(CLOSED IN-PLACE): N/A

- a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.

- b. Attach plan and sectional views of the site and include the following:

1. Location of the tank(s) including depth,
2. Location of tank(s) with respect to other tanks, if applicable,
3. Soil boring locations and depths at which soil samples were taken,
4. Boring logs.

- c. Attach groundwater sampling data, if required based on depth to groundwater.

- YES NO
- d. Is the groundwater more than 5 feet below the bottom of the tank? ☐ ☐

Provide the depth from the ground surface to the groundwater table.

Feet: _____

Refer to Closure Site Assessment Guidance (page 11) for further details regarding requirements for determining groundwater elevation.

- YES NO
- e. Was there a notable odor found in the bore holes? ☐ ☐

ADEM UST CLOSURE SITE ASSESSMENT FORM

If yes,

(1) The odor strength was (mild) (strong) (other) describe: _____

(2) The odor indicates what type of product: (gasoline)
(diesel) (waste oil) (kerosene) (other) describe: _____

f. Was free product found in the bore holes?

YES

☐

NO

☐

If yes,

1. How was free product handled? Describe: _____

2. What was the measured thickness of free product? _____

g. Describe the soil type and thickness of all soil layers encountered in the bore holes and provide boring logs:

h. Specify the inert solid material used to fill the tank(s):

i. Provide the date the tank(s) were filled: _____

YES

☐

NO

☐

j. Were the bore holes properly sealed with bentonite/soil?

If yes, provide the date: _____

4. PRODUCT PIPING CLOSURE BY REMOVAL:

a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.

b. If the piping was longer than 10 feet, attach plan and sectional views of the piping trench and include the following:

1. All appropriate excavation dimensions and length of piping,
2. All soil sample locations and depths using an appropriate method of identification.
3. Location of areas of visible contamination.

c. Was the piping purged of product prior to closure?

YES

☐

NO

☒

If yes, was the product properly disposed of?

☐☐

ADEM UST CLOSURE SITE ASSESSMENT FORM

d. Is the groundwater more than 5 feet below the bottom of the piping trench?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
If no, provide the depth from the ground surface to the groundwater table.	Feet: _____	
Indicate method used to determine water table depth:		
1. Excavation extended 5 feet below base of trench:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
2. Boring or monitoring well:	<input type="checkbox"/>	<input type="checkbox"/>
3. Topographic features (Method must be approved by ADEM prior to use):	<input type="checkbox"/>	<input type="checkbox"/>
e. Was there a notable odor found in the piping trench?		
	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
If yes,		
(1) The odor strength was (mild) (strong) (other) describe: _____		
(2) The odor indicates what type of product: (gasoline) (diesel) (waste oil) (kerosene) (other) describe: _____		
f. Was there water in the piping trench?		
	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
If yes, how was it handled?		
1. One time discharge to sanitary sewer with local approval?	YES <input type="checkbox"/>	NO <input type="checkbox"/>
2. Hauled to facility capable of treating constituents of petroleum products in water?	<input type="checkbox"/>	<input type="checkbox"/>
3. Hauled to local POTW with local approval?	<input type="checkbox"/>	<input type="checkbox"/>
4. Treated on-site with NPDES approved discharge?	<input type="checkbox"/>	<input type="checkbox"/>
5. Other? Explain:		

g. Was free product found in the piping trench?		
	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
If yes,		
1. How was free product handled? Describe: _____		
2. What was the measured thickness of free product? _____		
h. Were visible holes noted in the piping?		
	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
If yes, indicate the location(s) and provide a general description as to the size and number of holes:		
Two 2"-diameter, 9' long product/vent piping running east from the southeastern corner of the pad; not capped (hole).		

i. Describe the soil type and thickness of all soil layers encountered in the piping trench:

Light brownish-red silty, gravelly, clayey SAND (backfill)

j. Was the piping trench backfilled?

YES

☒

NO

☐

If yes, provide the date of backfilling: _____

DO NOT BACKFILL WITH MATERIAL THAT HAS OR POTENTIALLY HAS A TPH OF GREATER THAN 100 PPM!

5. PRODUCT PIPING CLOSURE WITHOUT REMOVAL (CLOSED IN-PLACE): N/A

a. Attach a topographic map showing the location of the facility and a general site map showing the area surrounding the UST site.

b. Attach plan and sectional views of the site and include the following:

1. Location of the piping including depth,
2. Location of piping with respect to tank(s), if applicable.
3. Soil boring locations and depth at which soil samples were taken,
4. Boring logs.

c. Attach groundwater sampling data, if required based on depth to groundwater.
Refer to Closure Site Assessment Guidance for further details regarding requirements for groundwater sampling.

d. Was the piping purged of product prior to closure?

YES

☐

NO

☐

If yes, was product properly disposed of?

☐
☐

e. Was the piping capped?

YES

☐

NO

☐

f. Is the groundwater more than 5 feet below the bottom of the excavation?

YES

☐

NO

☐

Provide the depth from the ground surface to the groundwater table.

Feet: _____

Refer to Closure Site Assessment Guidance (page 11) for further details regarding requirements for determining groundwater elevation.

g. Was there a notable odor found in the bore holes?

YES

☐

NO

☐

If yes,

(1) The odor strength was (mild) (strong) (other)
describe: _____

(2) The odor indicates what type of product:
(gasoline) (diesel) (waste oil) (kerosene) (other)
describe: _____

h. Was free product found in the bore holes?

YES

☐

NO

☐

ADEM UST CLOSURE SITE ASSESSMENT FORM

If yes,

1. How was free product handled? Describe: _____

2. What was the measured thickness of free product? _____

i. Describe the soil type and thickness of all soil layers encountered in the bore holes and provide boring logs:

j. Were the bore holes properly sealed with bentonite/soil?

YES
☐

NO
☐

If yes, provide the date: _____

6. GROUNDWATER SAMPLING (If required by attached closure guidelines):

N/A

a. Indicate the following on the plan and section views required by Section 2.b., 3.b, 4.b, or 5.b. above:

1. The location and depth of the 1 up-gradient and 3 down-gradient borings or monitoring wells. (Monitoring wells in lieu of borings are not required, but may be desirable in certain situations.)

2. The most probable direction of groundwater flow. State basis for determining direction:

b. Was a monitoring well used?

YES
☐

NO
☐

If yes, attach a schematic drawing of the well(s) and all boring logs.

c. SUMMARY OF GROUNDWATER SAMPLING RESULTS: N/A

Date of Sampling: _____

Boring or MW #:							
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Benzene							
Ethylbenzene							
Toluene							
Xylenes							
MTBE							
Anthracene							
Benzo(a)anthracene							
Benzo(a)pyrene							
Benzo(b) fluoranthene							
Benzo(k)fluoranthene							
Benzo(g,h,i)perylene							
Chrysene							
Fluoranthene							
Fluorene							
Naphthalene							
Phenanthrene							
Pyrene							
Lead							

Note: Attach additional tables as needed based on number of groundwater samples or variations in sampling dates.

- d. Attach the original chain of custody record (**copies are not acceptable**) and the original laboratory data sheet (**copies are not acceptable**) for each sample.

7. SUMMARY OF SOIL ANALYTICAL DATA

a. Provide the analytical data obtained from the site in the following tables:

TANK PIT SAMPLES: N/A

Date of
Sampling: _____

Sample #:							
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<u>TPH OPTION:</u>							
TPH							
Lead							
<u>COC OPTION:</u>							
Benzene							
Ethylbenzene							
Toluene							
Xylenes							
MTBE							
Anthracene							
Benzo(a)anthracene							
Benzo(a)pyrene							
Benzo(b) fluoranthene							
Benzo(k)fluoranthene							
Benzo(g,h,i)perylene							
Chrysene							
Fluoranthene							
Fluorene							
Naphthalene							
Phenanthrene							
Pyrene							
Lead							

Note: Attach additional tables as needed based on number of soil samples or variations in sampling dates.

PIPING & DISPENSER SAMPLES:Date of **7/26/00**

Sampling: _____

Sample #:	LF0006						
	East end of pipe						
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<u>TPH OPTION:</u>							
TPH							
Lead							
<u>COC OPTION:</u>							
Benzene	ND						
Ethylbenzene	ND						
Toluene	ND						
Xylenes	ND						
MTBE							
Acenaphthene	ND						
Acenaphthylene	ND						
Anthracene	0.15J						
Benzo(a)anthracene	0.25						
Benzo(a)pyrene	0.8						
Benzo(b) fluoranthene	0.44						
Benzo(k)fluoranthene	0.39						
Benzo(g,h,i)perylene	0.49						
Chrysene	0.42						
Dibenz(a,h)anthracene	0.064						
Fluoranthene	0.5						
Fluorene	ND						
Indeno(1,2,3-cd)pyrene	0.48						
Naphthalene	ND						
Phenanthrene	ND						
Pyrene	0.34						
Lead	20.3						

Note: Attach additional tables as needed based on number of soil samples or variations in sampling dates.

- b. Attach the original chain of custody record (**copies are not acceptable**) and the original laboratory data sheet (**copies are not acceptable**) for each sample.

- e. Indicate current method and location of soil management and/or treatment prior to final disposal:

- f. Check the method of soil disposal used or to be used:

- ☒ Return to the excavation pit only when TPH is less than or equal to 100 ppm and depth of groundwater is greater than 5 feet from the base of the pit.
- ☐ Spread in a thin layer (6" or less) on site only when TPH is less than or equal to 100 ppm
- ☐ Disposal in a landfill (See attached "Guidelines for the Disposal of Non-Hazardous Petroleum Contaminated Wastes").
- ☐ Incineration.
- ☐ Thermal volatilization.
- ☐ Recycling facility
- ☐ Other _____

- g. If soil was disposed of prior to the submittal of this form, indicate the final destination below and attach copies of invoices, receipts, and "certificate of burn" (if soil was incinerated):

9. TANK CLEANING: N/A

- | | YES | NO |
|---|--------------------------|----|
| a. The tank(s) were cleaned in accordance with American Petroleum Institute (API) Bulletin 2015 "Cleaning Petroleum Storage Tanks"? | <input type="checkbox"/> | NA |
- If no, describe how tank(s) were cleaned:
No tanks were identified during investigative dig.

- b. Provide an estimate of the volume of sludge removed from the tank: NA Gallons

- c. Indicate the final destination of the sludge and attach invoices or receipts:

10. ATTACHMENTS

Attach the following to the closure form in the following order as applicable to the type of closure site assessment performed. Check each box to indicate that a particular map or information is attached to the closure site assessment form. The section of the closure site assessment form that indicates the required attachment is shown.

<input checked="" type="checkbox"/>	Topographic Map showing location of site (Section 2.a., 3.a., 4.a., & 5.a.)
<input checked="" type="checkbox"/>	Area map showing general location of the site. Include land use on-site and within 500' of site. (Section 1)
<input type="checkbox"/>	Include locations of domestic and public water supply wells, and surface water intakes (Section 1)
<input checked="" type="checkbox"/>	Plan and sectional views of the site including the following: (Section 2.b., 3.b., 4.b., & 5.b.)
<input type="checkbox"/>	Location of the closed tanks and piping including depth. Include any remaining tanks or piping at site. Include tank identification numbers.
<input type="checkbox"/>	Excavation dimensions of the tank system
<input checked="" type="checkbox"/>	Locations of soil samples taken for piping and tank which includes the analytical results.
<input type="checkbox"/>	Location of areas of visible contamination
<input type="checkbox"/>	Location of any stockpiled excavated soil
<input type="checkbox"/>	Location of soil borings for an in-place closure
<input type="checkbox"/>	The location and depth of the one up-gradient and 3 down-gradient borings or monitoring wells (Section 6.a.)
<input type="checkbox"/>	Map illustrating the most probable direction of groundwater flow (Section 6.a.)
<input type="checkbox"/>	Schematic diagrams of the monitoring wells installed (Section 6.b.)
<input type="checkbox"/>	Boring logs of soil borings (Section 3.b., 5.b. & 6.b.)
<input type="checkbox"/>	Site Classification Checklist
<input type="checkbox"/>	Invoices and/or receipts for sludge disposal (Section 9.c.)
<input type="checkbox"/>	Invoices, manifests and certificates of burn or disposal for soil disposal (Section 8.f.)

<input checked="" type="checkbox"/>	Attach the original chain of custody record (copies are not acceptable) for each sample which includes at least the following: (Sections 6.d., 7.b., & 8.c.)
<input checked="" type="checkbox"/>	Sample identification number,
<input checked="" type="checkbox"/>	Date and time sample was taken,
<input checked="" type="checkbox"/>	Name and title of person collecting sample (see certification requirement on page 15 of this form),
<input checked="" type="checkbox"/>	Type of sample (soil or water),
<input checked="" type="checkbox"/>	Type of sample container,
<input checked="" type="checkbox"/>	Method of preservation,
<input checked="" type="checkbox"/>	Date and time sample was relinquished,
<input checked="" type="checkbox"/>	Person relinquishing sample,
<input checked="" type="checkbox"/>	Date and time sample was received by lab,
<input checked="" type="checkbox"/>	Person receiving sample at lab.

<input checked="" type="checkbox"/>	Attach the original laboratory data sheet (copies are not acceptable) which includes at least the following: (Sections 6.d., 7.b., & 8.c.)
<input checked="" type="checkbox"/>	A sample identification number which can be cross referenced with the soil sample locations indicated on the plan and sectional views required by Section 2.b., 3.b., 4.b., or 5.b. above
<input checked="" type="checkbox"/>	The sample analytical results with appropriate units,
<input checked="" type="checkbox"/>	The method used to analyze each sample,
<input checked="" type="checkbox"/>	The date and time the sample was analyzed,
<input checked="" type="checkbox"/>	The person analyzing the sample.

11. SIGNATURES

This form should be completed, signed, and returned, along with any other pertinent information, to the following address:

The Alabama Department of Environmental Management
Groundwater Branch
Post Office Box 301463
Montgomery, AL 36130-1463
(334) 270-5655

INCOMPLETE FORMS WILL BE RETURNED FOR CORRECTION.

Name of person taking soil and/or groundwater samples: James R. Messer

Company: IT Corporation

Telephone Number: 256-848-3499

I certify under penalty of law that I have obtained representative soil and/or groundwater samples using accepted sampling procedures.

Signature: _____ Date: _____

Either a Geologist or an Alabama Registered Professional Engineer must sign this form:

I certify under penalty of law that I have performed this closure site assessment in accordance with accepted soil and groundwater investigation practices; I am either a Geologist or an Alabama Registered Professional Engineer; I am experienced in soil and groundwater investigations; and the information I have submitted, to the best of my knowledge and belief, is true, accurate, and complete.

Signature of Geologist: _____ Date: _____

Signature of Alabama Registered Professional Engineer: David B. Tester, P.E. Date: 10/18/01

Alabama P.E. Registration Number: 23633

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Signature of Tank Owner: _____ Date: _____

FOR ADEM USE ONLY:

Reviewed By: _____ Date: _____

COMMENTS:

FORM 1133
11/05/97

FOR ADEM OFFICE USE ONLY

TO: _____ FROM: _____
 Air Division UST Compliance Section

ADEM UST CLOSURE TOTAL POTENTIAL VOC EMISSIONS CALCULATIONS

FACILITY I.D. NO.: _____ NA _____ DATE OF THIS REPORT: _____ 8/30/00

INCIDENT NO. UST ____ - ____ - ____ UST OWNER: _____ U.S. Army
 (If applicable).

FACILITY COUNTY: _____ Calhoun _____ ADDRESS: _____ Ft. McClellan
 _____ Anniston, AL

FACILITY NAME: _____ Parcel 133 _____ CONTACT NAME: _____
 LOCATION: _____ A-1(2) _____ CONTACT PHONE #: _____

ADDRESS: _____ Ft. McClellan
 _____ Anniston, AL

Name of Consultant who performed calculations: _____ James R. Messer
 Consultant's Phone Number: _____ 256-848-3499

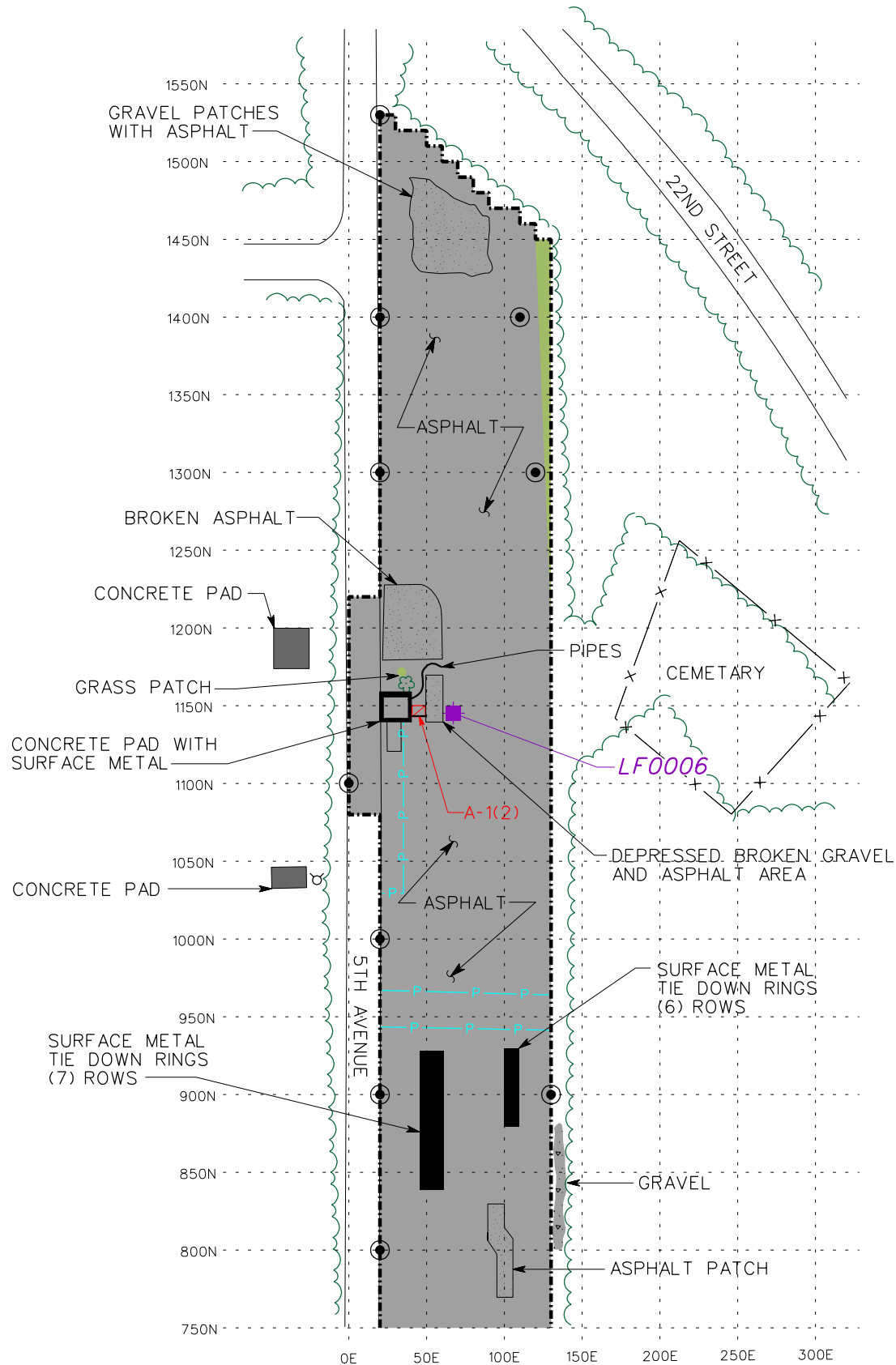
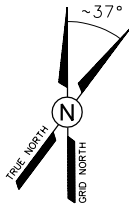
	a	ppm x	b	cyds x .002 =	c	lbs. VOC emissions
Sample 1	35	ppm x	5	cyds x .002 =	0.35	lbs. VOC emissions
Sample 2	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 3	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 4	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 5	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 6	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 7	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 8	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 9	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 10	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 11	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 12	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 13	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 14	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions
Sample 15	_____	ppm x	_____	cyds x .002 =	_____	lbs. VOC emissions

TOTAL POTENTIAL EMISSIONS = 0.35 lbs. VOC emissions

*** NOTE - If more samples are taken than indicated on this form, please attach additional pages as necessary.**

This form must be completed and submitted with the ADEM UST Closure Site Assessment Report Form.

FIGURES



LEGEND

- GEOPHYSICAL SURVEY BOUNDARY
- CIVIL SURVEY STAKE LOCATION
- A-1(2) GEOPHYSICAL ANOMALY
- P— PIPE/BURIED UTILITY
- ⊕ FIRE HYDRANT
- x— FENCE
- ~~~~~ TREES / TREELINE
- SOIL SAMPLE LOCATION

NAD 83 SPHEROID, ALABAMA EAST STATE PLANE DATUM		
LOCAL GRID COORDINATES	STATE PLANE COORDINATES	
800N,20E	1168295.870N	672812.560E
900N,20E	1168375.740N	672752.501E
900N,130E	1168442.910N	672839.364E
1000N,20E	1168455.590N	672692.494E
1100N,0E	1168523.062N	672616.332E
1300N,20E	1168695.029N	672512.281E
1300N,120E	1168755.073N	672590.110E
1400N,110E	1168829.443N	672523.679E
1400N,20E	1168774.924N	672452.259E
1530N,20E	1168878.105N	672374.359E

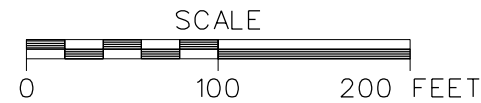


FIGURE D-2
SITE MAP WITH SAMPLE LOCATION
AND GEOPHYSICAL INTERPRETATION
PARCELS 132(7), 133(7), AND 134(7)
FORMER GAS STATION
BUILDINGS 1494, 1594, AND 1594A AT
FORMER MOTOR POOL AREA 1500
PARCEL 94(7),
NORTHERN PORTION OF THE SITE

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

UST INVESTIGATION PHOTOGRAPHS

UST INVESTIGATION

Former Gas Station Building 1494, Parcel 133(7) at Former Motor Pool Area 1500, Parcel 94(7)
Project No. 783149; Task Order CK08; Modification No. 2; Contract Number DACA21-96-D-0018



Photo 1: Anomaly A-1(2). Pre-dig conditions. Facing northeast.



Photo 2: Anomaly A-1(2). Note piping on the southeast corner of the pad (right lower center of photo). Facing east.

UST INVESTIGATION

**Former Gas Station Building 1494, Parcel 133(7) at Former Motor Pool Area 1500, Parcel 94(7)
Project No. 783149; Task Order CK08; Modification No. 2; Contract Number DACA21-96-D-0018**



Photo 3: Anomaly A-1(2). Trench and exposed piping extending through anomaly area. Facing west.

UST INVESTIGATION

**Former Gas Station Building 1494, Parcel 133(7) at Former Motor Pool Area 1500, Parcel 94(7)
Project No. 783149; Task Order CK08; Modification No. 2; Contract Number DACA21-96-D-0018**



Photo 4: Anomaly A-1(2). Depth of excavation extended to 6-feet below ground surface. No water.

ANALYTICAL RESULTS

H0G270153 / UST13301 Sample Data Summary	1
Sample Receipt Documentation.....	32
Invoice	39
Total # of Pages	39

**SEVERN
TRENT
SERVICES**

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

Tel: 865-291-3000
Fax: 865-584-4315
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 783149

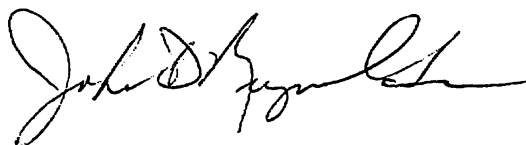
FTMC

Lot #: H0G270153

Duane Nielsen

IT Corp - Ft. McClellan
312 Directors Drive
Knoxville, TN 37923

SEVERN TRENT LABORATORIES, INC.



John Reynolds
Project Manager

August 7, 2000

SAMPLE SUMMARY

H0G270153

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DGWA8	001	LF0006	07/26/00	14:00
DGWAH	002	LF0007	07/26/00	14:00
DGWAL	003	LF8001	07/26/00	14:30

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ANALYTICAL METHODS SUMMARY

H0G270153

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Extractable Petroleum Hydrocarbons	SW846 8015B
Paint Filter Test	SW846 9095
Percent Moisture	MCAWW 160.3 MOD
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Petroleum Hydrocarbons	SW846 8015B
Volatiles by GC	SW846 8021B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE

H0G270153

The results reported herein are applicable to the samples submitted for analysis only.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Subcontract

The following analyses were performed by STL Tampa East, 5910 Breckenridge Parkway, Tampa, FL 33601: Percent Solids (MCAWW 160.3 MOD), Gasoline and Diesel Range Organics (SW846 8015B), Paint Filter Test (SW846 9095), Polynuclear Aromatic Hydrocarbons (SW846 8310) and BTEX (SW846 8021B).

Quality Control

All holding times and QC criteria were met with the following exception:

Polynuclear Aromatic Hydrocarbons

The surrogate recoveries for samples LF0006 and LF0007 were not calculated because the extract was diluted beyond the ability to quantitate a recovery.

This report shall not be reproduced except in full, without the written approval of the laboratory.

STL Knoxville (formerly Quanterra Incorporated), Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Connecticut DPH Cert. #PH-0233, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Georgia EPD by US EPA Region IV, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Ohio EPA VAP #CL0059, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN#, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

IT CORP - FT. MCCLELLAN

Client Sample ID: LF8001

GC Semivolatiles

Lot-Sample #...: H0G270153-003 Work Order #...: DGWAL102 Matrix.....: SOLID
Date Sampled...: 07/26/00 Date Received...: 07/27/00
Prep Date.....: 07/27/00 Analysis Date...: 07/31/00
Prep Batch #...: 0209608
Dilution Factor: 1
% Moisture.....: 11 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Diesel Range Organics	35	11	mg/kg	3.1

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Tetratriacontane	64	(25 - 113)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H0G270153
MB Lot-Sample #: B0G270000-608

Work Order #...: DH06Q101

Matrix.....: SOLID

Analysis Date...: 07/31/00

Prep Date.....: 07/27/00

Prep Batch #...: 0209608

Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	10	mg/kg	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetratriacontane	86	(25 - 113)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: H0G270153 Work Order #....: DH06Q102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G270000-608 DH06Q103-LCSD
 Prep Date.....: 07/27/00 Analysis Date...: 07/31/00
 Prep Batch #....: 0209608
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Diesel Range Organics	59.2	58.3	mg/kg	99		SW846 8015B
	59.2	68.0	mg/kg	115	15	SW846 8015B
<u>SURROGATE</u>				<u>PERCENT</u> <u>RECOVERY</u>		<u>RECOVERY</u> <u>LIMITS</u>
Tetratriacontane				97		(25 - 113)
				98		(25 - 113)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: H0G270153 Work Order #....: DH06Q102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G270000-608 DH06Q103-LCSD
 Prep Date.....: 07/27/00 Analysis Date...: 07/31/00
 Prep Batch #....: 0209608
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Diesel Range Organics	99	(35 - 115)			SW846 8015B
	115	(35 - 115)	15	(0-34)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetratriacontane	97	(25 - 113)
	98	(25 - 113)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LF8001

GC Volatiles

Lot-Sample #....: H0G270153-003 Work Order #....: DGWAL103 Matrix.....: SOLID
Date Sampled....: 07/26/00 Date Received...: 07/27/00
Prep Date.....: 07/27/00 Analysis Date...: 07/28/00
Prep Batch #....: 0210172
Dilution Factor: 1
% Moisture.....: 11 Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Gasoline Range Organics	ND	5.6	mg/kg	0.48

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	71	(39 - 163)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H0G270153 Work Order #...: DH0JH101 Matrix.....: SOLID
MB Lot-Sample #: B0G280000-172
Prep Date.....: 07/27/00
Analysis Date...: 07/28/00 Prep Batch #...: 0210172
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Gasoline Range Organics	ND	5.0	mg/kg	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene	86	(39 - 163)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: H0G270153 Work Order #....: DH0JH102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G280000-172 DH0JH103-LCSD
 Prep Date.....: 07/27/00 Analysis Date...: 07/28/00
 Prep Batch #....: 0210172
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Gasoline Range Organics	20.0	16.5	mg/kg	82		SW846 8015B
	20.0	17.4	mg/kg	87	5.4	SW846 8015B
<u>SURROGATE</u>				<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	
4-Bromofluorobenzene				78	(39 - 163)	
				85	(39 - 163)	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: HOG270153 Work Order #....: DH0JH102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: BOG280000-172 DH0JH103-LCSD
 Prep Date.....: 07/27/00 Analysis Date...: 07/28/00
 Prep Batch #....: 0210172
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Gasoline Range Organics	82	(26 - 115)			SW846 8015B
	87	(26 - 115)	5.4	(0-25)	SW846 8015B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	78	(39 - 163)
	85	(39 - 163)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LF0006

GC Volatiles

Lot-Sample #....: H0G270153-001 Work Order #....: DGWA8102 Matrix.....: SOLID
Date Sampled....: 07/26/00 Date Received...: 07/27/00
Prep Date.....: 07/27/00 Analysis Date...: 07/27/00
Prep Batch #....: 0210168
Dilution Factor: 1
% Moisture.....: 17 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	60	ug/kg	22
Ethylbenzene	ND	60	ug/kg	26
Toluene	ND	60	ug/kg	17
Xylenes (total)	ND	60	ug/kg	56

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	100	(46 - 143)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLIBLAN

Client Sample ID: LP0007

GC Volatiles

Lot-Sample #....: H0G270153-002 Work Order #....: DGWAH103 Matrix.....: SOLID
Date Sampled....: 07/26/00 Date Received...: 07/27/00
Prep Date.....: 07/27/00 Analysis Date...: 07/27/00
Prep Batch #....: 0210168
Dilution Factor: 1
% Moisture.....: 16 Method.....: SW846 8021B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Benzene	ND	60	ug/kg	21
Ethylbenzene	ND	60	ug/kg	26
Toluene	ND	60	ug/kg	17
Xylenes (total)	ND	60	ug/kg	56

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
4-Bromofluorobenzene	112	(46 - 143)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: H0G270153
MB Lot-Sample #: B0G280000-168

Work Order #...: DH0J6101

Matrix.....: SOLID

Analysis Date...: 07/27/00

Prep Date.....: 07/27/00

Prep Batch #...: 0210168

Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	50	ug/kg	SW846 8021B
Ethylbenzene	ND	50	ug/kg	SW846 8021B
Toluene	ND	50	ug/kg	SW846 8021B
Xylenes (total)	ND	50	ug/kg	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
4-Bromofluorobenzene	92	(46 - 143)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: H0G270153 Work Order #....: DH0J6102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G280000-168 DH0J6103-LCSD
 Prep Date.....: 07/27/00 Analysis Date...: 07/27/00
 Prep Batch #....: 0210168
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	1000	890	ug/kg	89		SW846 8021B
	1000	913	ug/kg	91	2.5	SW846 8021B
Ethylbenzene	1000	958	ug/kg	96		SW846 8021B
	1000	997	ug/kg	100	3.9	SW846 8021B
Toluene	1000	955	ug/kg	95		SW846 8021B
	1000	959	ug/kg	96	0.45	SW846 8021B
m-Xylene & p-Xylene	2000	1930	ug/kg	97		SW846 8021B
	2000	2030	ug/kg	102	5.1	SW846 8021B
o-Xylene	1000	952	ug/kg	95		SW846 8021B
	1000	996	ug/kg	100	4.6	SW846 8021B
<u>SURROGATE</u>				<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene				104		(46 - 143)
				105		(46 - 143)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: H0G270153 Work Order #...: DH0J6102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G280000-168 DH0J6103-LCSD
 Prep Date.....: 07/27/00 Analysis Date...: 07/27/00
 Prep Batch #...: 0210168
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	89	(62 - 128)			SW846 8021B
	91	(62 - 128)	2.5	(0-30)	SW846 8021B
Ethylbenzene	96	(66 - 119)			SW846 8021B
	100	(66 - 119)	3.9	(0-20)	SW846 8021B
Toluene	95	(73 - 123)			SW846 8021B
	96	(73 - 123)	0.45	(0-20)	SW846 8021B
m-Xylene & p-Xylene	97	(70 - 130)			SW846 8021B
	102	(70 - 130)	5.1	(0-20)	SW846 8021B
o-Xylene	95	(70 - 130)			SW846 8021B
	100	(70 - 130)	4.6	(0-20)	SW846 8021B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	104	(46 - 143)
	105	(46 - 143)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LF0006

HPLC

Lot-Sample #....: H0G270153-001 Work Order #....: DGWA8101 Matrix.....: SOLID
 Date Sampled....: 07/26/00 Date Received...: 07/27/00
 Prep Date.....: 07/27/00 Analysis Date...: 08/02/00
 Prep Batch #....: 0209607
 Dilution Factor: 10
 % Moisture.....: 17 Method.....: SW846 8310

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	600	ug/kg	60
Acenaphthylene	ND	600	ug/kg	77
Anthracene	150 J	600	ug/kg	40
Benzo (a) anthracene	250	60	ug/kg	12
Benzo (a) pyrene	800	60	ug/kg	10
Benzo (b) fluoranthene	440	60	ug/kg	9.4
Benzo (ghi) perylene	490	60	ug/kg	13
Benzo (k) fluoranthene	390	60	ug/kg	6.0
Chrysene	420	60	ug/kg	11
Dibenz (a,h) anthracene	64	60	ug/kg	10
Fluoranthene	500	60	ug/kg	11
Fluorene	ND	600	ug/kg	110
Indeno (1,2,3-cd) pyrene	480	60	ug/kg	8.4
Naphthalene	ND	600	ug/kg	200
Phenanthrene	ND	600	ug/kg	120
Pyrene	340	60	ug/kg	11

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Carbazole	NC, SRD	(17 - 115)

NOTE (S) :

NC The recovery and/or RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

IT CORP - FT. MCCLELLAN

Client Sample ID: LF0007

HPLC

Lot-Sample #....: H0G270153-002 Work Order #....: DGWAH101 Matrix.....: SOLID
 Date Sampled....: 07/26/00 Date Received...: 07/27/00
 Prep Date.....: 07/27/00 Analysis Date...: 08/02/00
 Prep Batch #....: 0209607
 Dilution Factor: 10
 % Moisture.....: 16 Method.....: SW846 8310

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	600	ug/kg	60
Acenaphthylene	ND	600	ug/kg	76
Anthracene	ND	600	ug/kg	39
Benzo (a) anthracene	76	60	ug/kg	12
Benzo (a) pyrene	160	60	ug/kg	10
Benzo (b) fluoranthene	74	60	ug/kg	9.3
Benzo (ghi) perylene	49 J	60	ug/kg	13
Benzo (k) fluoranthene	49 J	60	ug/kg	6.0
Chrysene	120	60	ug/kg	10
Dibenz (a,h) anthracene	ND	60	ug/kg	9.9
Fluoranthene	330	60	ug/kg	10
Fluorene	ND	600	ug/kg	110
Indeno (1,2,3-cd) pyrene	71	60	ug/kg	8.4
Naphthalene	ND	600	ug/kg	200
Phenanthrene	270 J	600	ug/kg	110
Pyrene	180	60	ug/kg	11
		PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>		<u>LIMITS</u>	
Carbazole	NC,SRD		(17 - 115)	

NOTE (S) :

NC The recovery and/or RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

HPLC

Client Lot #...: HOG270153
 MB Lot-Sample #: BOG270000-607

Work Order #...: DH06P101

Matrix.....: SOLID

Analysis Date...: 08/01/00
 Dilution Factor: 1

Prep Date.....: 07/27/00

Prep Batch #...: 0209607

		REPORTING		
<u>PARAMETER</u>	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Acenaphthene	ND	50	ug/kg	SW846 8310
Acenaphthylene	ND	50	ug/kg	SW846 8310
Anthracene	ND	50	ug/kg	SW846 8310
Benzo(a)anthracene	ND	5.0	ug/kg	SW846 8310
Benzo(a)pyrene	ND	5.0	ug/kg	SW846 8310
Benzo(b)fluoranthene	ND	5.0	ug/kg	SW846 8310
Benzo(ghi)perylene	ND	5.0	ug/kg	SW846 8310
Benzo(k)fluoranthene	ND	5.0	ug/kg	SW846 8310
Chrysene	ND	5.0	ug/kg	SW846 8310
Dibenz(a,h)anthracene	ND	5.0	ug/kg	SW846 8310
Fluoranthene	ND	5.0	ug/kg	SW846 8310
Fluorene	ND	50	ug/kg	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	5.0	ug/kg	SW846 8310
Naphthalene	ND	50	ug/kg	SW846 8310
Phenanthrene	ND	50	ug/kg	SW846 8310
Pyrene	ND	5.0	ug/kg	SW846 8310
		PERCENT	RECOVERY	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Carbazole	83	(17 - 115)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #....: H0G270153 Work Order #....: DH06P102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G270000-607 DH06P103-LCSD
 Prep Date.....: 07/27/00 Analysis Date...: 08/01/00
 Prep Batch #....: 0209607
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	333	232	ug/kg	70		SW846 8310
	333	246	ug/kg	74	5.6	SW846 8310
1-Methylnaphthalene	333	224	ug/kg	67		SW846 8310
	333	247	ug/kg	74	9.6	SW846 8310
Chrysene	33.3	25.0	ug/kg	75		SW846 8310
	33.3	26.3	ug/kg	79	5.3	SW846 8310
Fluorene	333	232	ug/kg	70		SW846 8310
	333	248	ug/kg	74	6.4	SW846 8310
Naphthalene	333	203	ug/kg	61		SW846 8310
	333	227	ug/kg	68	11	SW846 8310
Pyrene	33.3	24.8	ug/kg	74		SW846 8310
	33.3	26.1	ug/kg	78	5.0	SW846 8310
				PERCENT RECOVERY	RECOVERY LIMITS	
SURROGATE				84	(17 - 115)	
Carbazole				87	(17 - 115)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #....: H0G270153 Work Order #....: DH06P102-LCS Matrix.....: SOLID
 LCS Lot-Sample#: B0G270000-607 DH06P103-LCSD
 Prep Date.....: 07/27/00 Analysis Date...: 08/01/00
 Prep Batch #....: 0209607
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Acenaphthene	70	(41 - 115)			SW846 8310
	74	(41 - 115)	5.6	(0-30)	SW846 8310
1-Methylnaphthalene	67	(45 - 115)			SW846 8310
	74	(45 - 115)	9.6	(0-27)	SW846 8310
Chrysene	75	(45 - 115)			SW846 8310
	79	(45 - 115)	5.3	(0-27)	SW846 8310
Fluorene	70	(42 - 115)			SW846 8310
	74	(42 - 115)	6.4	(0-28)	SW846 8310
Naphthalene	61	(28 - 116)			SW846 8310
	68	(28 - 116)	11	(0-26)	SW846 8310
Pyrene	74	(46 - 115)			SW846 8310
	78	(46 - 115)	5.0	(0-50)	SW846 8310

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Carbazole	84	(17 - 115)
	87	(17 - 115)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

IT CORP - FT. MCCLELLAN

Client Sample ID: LF0006

TOTAL Metals

Lot-Sample #....: HOG270153-001

Matrix.....: SOLID

Date Sampled....: 07/26/00

Date Received...: 07/27/00

% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 0210131						
Lead	20.3	0.36	mg/kg	SW846 6010B	07/28/00	DGWA8105
		Dilution Factor: 1		Analysis Time...: 16:48	MDL.....: 0.14	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LF0007

TOTAL Metals

Lot-Sample #...: H0G270153-002

Matrix.....: SOLID

Date Sampled...: 07/26/00

Date Received...: 07/27/00

% Moisture.....: 16

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 0210131						
Lead	18.2	0.36	mg/kg	SW846 6010B	07/28/00	DGWAH105
		Dilution Factor: 1		Analysis Time...: 16:53	MDL.....: 0.14	

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

IT CORP - FT. MCCLELLAN

Client Sample ID: LF8001

TOTAL Metals

Lot-Sample #...: HOG270153-003

Matrix.....: SOLID

Date Sampled...: 07/26/00

Date Received...: 07/27/00

% Moisture.....: 11

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 0210131						
Lead	29.7	0.34	mg/kg	SW846 6010B	07/28/00	DGWAL106
		Dilution Factor: 1		Analysis Time..: 17:07	MDL.....: 0.13	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: HOG270153

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
MB Lot-Sample #: HOG280000-131 Prep Batch #....: 0210131						
Lead	ND	0.30	mg/kg	SW846 6010B	07/28/00	DH0E9101
		Dilution Factor: 1				
		Analysis Time...: 15:39				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H0G270153

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
------------------	-------------------------------	----------------------------------	--------------	--------------------------------	---------------	---	-------------------------------

LCS Lot-Sample#: H0G280000-131 Prep Batch #....: 0210131

Lead	50.0	48.3	mg/kg	97	SW846 6010B	07/28/00	DH0E9102
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Dilution Factor: 1

Analysis Time...: 15:44

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H0G270153

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#:	H0G280000-131	Prep Batch #...	0210131		
Lead	97	(80 - 120)	SW846 6010B	07/28/00	DH0E9102
		Dilution Factor:	1		
		Analysis Time...	15:44		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

IT CORP - FT. MCCLELLAN

Client Sample ID: LF0006

General Chemistry

Lot-Sample #....: H0G270153-001 Work Order #....: DGWA8 Matrix.....: SOLID
Date Sampled....: 07/26/00 Date Received...: 07/27/00
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	16.6	0.10	%	MCAWW 160.3 MOD	07/31-08/01/00	0214149
		Dilution Factor: 1		MDL.....: 0.10		

IT CORP - FT. MCCLELLAN

Client Sample ID: LF0007

General Chemistry

Lot-Sample #....: H0G270153-002 Work Order #....: DGWAH Matrix.....: SOLID
Date Sampled....: 07/26/00 Date Received...: 07/27/00
% Moisture.....: 16

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	16.2	0.10	%	MCAWW 160.3 MOD	07/31-08/01/00	0214149
		Dilution Factor: 1		MDL.....: 0.10		

IT CORP - FT. MCCLELLAN

Client Sample ID: LF8001

General Chemistry

Lot-Sample #....: HOG270153-003 Work Order #....: DGWAL Matrix.....: SOLID
 Date Sampled....: 07/26/00 Date Received...: 07/27/00
 % Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Paint Filter Test	NO		No Units	SW846 9095	07/28/00	0210428
			Dilution Factor: 1	MDL.....:		
Percent Moisture	11.0	0.10	%	MCAWW 160.3 MOD	07/31-08/01/00	0214149
			Dilution Factor: 1	MDL.....:		

Sample Delivery Group
Assignment Form

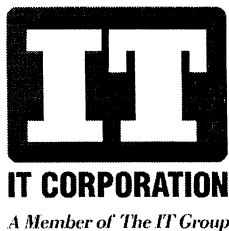
SDG# UST13301

*	DATE REC'D	LOT#	CLIENT ID	VOA	PAH	PEST	EXP	MET	PCB	PH	DRO	GRO	PAINT
				8021B	8310	8081A	8330	6010B	8082	9045	8015	8015	FILTER
1	7/27/00	H0G270153	LF0006	T	T			X					
2			LF0007	T	T			X					
3			LF8001					X			T	T	T
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

NC = NORTH CANTON
T = STL TAMPA
D= STL DENVER
WS = STL WEST SACRAMENTO
P = PITTSBURGH
IT = IT CORP KNOX

MATRIX: SOIL
ANALYTICAL DUE: 7-31-00
REPORT DUE: 8-7-00
CLOSED? YES

8/11/008:04 AM



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

HP6270153

Reference Document No: 133-072600-QSK

Page 1 of 1

Project Number: 783149

Samples Shipment Date: 27 JUL 2000

Bill To: Duane Nielsen

Project Name: Fort McClellan, SAD TERC

Lab Destination: Quanterra Environmental Services - Knoxville

312 Directors Drive

Knoxville

TN 37923

Sample Coordinator: Oliver Allen

Lab Contact: John Reynolds

Report To: Duane Nielsen

312 Directors Drive

Knoxville

TN 37923

Turnaround Time: 48 hour Turn

Project Contact: Randy McBride

Carrier/Waybill No.: Quality Express/Courier

Special Instructions: 48 Hour Turnaround

Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation) *Dr. K. Allen IT*

Date: 7-27-00
Time: 0850

1. Received By (Signature/Affiliation) *Ray Owens*

Date: 7/27/00
Time: 9:05-AM CT

2. Relinquished By (Signature/Affiliation) *Ray Owens*

Date: 7-27-00
Time: 14:30

2. Received By (Signature/Affiliation) *David D. Flores*

Date: 7-27-00
Time: 1430

3. Relinquished By (Signature/Affiliation)

Date:
Time:

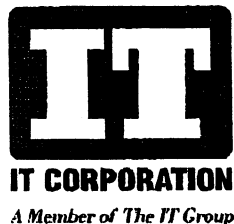
3. Received By (Signature/Affiliation)

Date:
Time:

Comments: None

Rec'd Temp. 2°C
Custody Seals Intact
MF# 7-27-00

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File CID	Condition On Receipt
LF0006	UST-133A1-CS06-CS-LF0006-REG	26 JUL 2000	14:00	8 oz CWM	1	None except cool to 4 C	Lead by 6010B	N	
LF0007	UST-133A1-CS06-CS-LF0007-FD	26 JUL 2000	14:00	8 oz CWM	1	None except cool to 4 C	Lead by 6010B	N	
LF8001	UST-133A1-SP01-SP-LF8001-REG	26 JUL 2000	14:30	8 oz CWM	1	None except cool to 4 C	Lead by 6010B	N	



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

H06270153

UST13301

Reference Document No: 133-072600-QST
Page 1 of 1

Project Number: 783149

Samples Shipment Date: 26 JUL 2000

Bill To: Duane Nielsen

Project Name: Fort McClellan, SAD TERC

Lab Destination: QUANTERRA - TAMPA

312 Directors Drive

Knoxville

TN 37923

Sample Coordinator: Oliver Allen

Lab Contact: Michelle Lersch

Report To: Duane Nielsen

312 Directors Drive

Knoxville

TN 37923

Turnaround Time: 48 hour Turn

Project Contact: Randy McBride

Carrier/Waybill No.: FedEx790866391164

Special Instructions: 48 Hour Turnaround

Possible Hazard Identification:

Non-hazard ☐

Flammable ☐

Skin Irritant ☐

Poison B ☐

Unknown ☒

Sample Disposal:

Return to Client ☐

Disposal by Lab ☒

Archive

(mos.)

1. Relinquished By
(Signature/Affiliation)

OK Allen

Date: 26 July 00
Time: 1530

1. Received By
(Signature/Affiliation)

Date:
Time:

2. Relinquished By
(Signature/Affiliation)

Date:
Time:

2. Received By
(Signature/Affiliation)

Date:
Time:

3. Relinquished By
(Signature/Affiliation)

Date:
Time:

3. Received By
(Signature/Affiliation)

Date:
Time:

Comments: None

7-31
8-7

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File CID	Condition On Receipt
LF0006	UST-133A1-CS06-CS-LF0006-REG	26 JUL 2000	14:00	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N	
LF0006	UST-133A1-CS06-CS-LF0006-REG	26 JUL 2000	14:00	8 oz CWM	1	None except cool to 4 C	PAH's by 8310	N	
LF0007	UST-133A1-CS06-CS-LF0007-FD	26 JUL 2000	14:00	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N	
LF0007	UST-133A1-CS06-CS-LF0007-FD	26 JUL 2000	14:00	8 oz CWM	1	None except cool to 4 C	PAH's by 8310	N	
LF8001	UST-133A1-SP01-SP-LF8001-REG	26 JUL 2000	14:30	8 oz CWM	1	None except cool to 4 C	Deisel Range Organics by 8015B	N	
LF8001	UST-133A1-SP01-SP-LF8001-REG	26 JUL 2000	14:30	5 g EnCore	1	None except cool to 4 C	Gasoline Range Organics by 8015B	N	
LF8001	UST-133A1-SP01-SP-LF8001-REG	26 JUL 2000	14:30	8 oz CWM	1	None except cool to 4 C	Paint Filter	N	



IT CORPORATION

A Member of The IT Group

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 133-072600-QST

Page 1 of 1

Project Number: 783149

Samples Shipment Date: 26 JUL 2000

Bill To: Duane Nielsen

Project Name: Fort McClellan, SAD TERC

Lab Destination: QUANTERRA - TAMPA

312 Directors Drive

Knoxville

TN 37923

Sample Coordinator: Oliver Allen

Lab Contact: Michelle Lersch

Report To: Duane Nielsen

312 Directors Drive

Knoxville

TN 37923

Turnaround Time: 48 hour Turn

Project Contact: Randy McBride

Carrier/Waybill No.: FedEx/790866391164

Special Instructions: 48 Hour Turnaround

Possible Hazard Identification:

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal:

Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By
(Signature/Affiliation)

De K. Olee

Date: 26 July 00
Time: 1530

1. Received By
(Signature/Affiliation)

Carol McHulley

Date: 7/27/00
Time: 1000

2. Relinquished By
(Signature/Affiliation)

Date:
Time:

2. Received By
(Signature/Affiliation)

Date:
Time:

3. Relinquished By
(Signature/Affiliation)

Date:
Time:

3. Received By
(Signature/Affiliation)

Date:
Time:

Comments: None

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	File CID	Condition On Receipt
LF0006	UST-133AT-CS06-CS-LF0006-REG	26 JUL 2000	14:00	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N	
LF0006	UST-133AT-CS06-CS-LF0006-REG	26 JUL 2000	14:00	8 oz CWM	1	None except cool to 4 C	PAH's by 8310	N	
LF0007	UST-133AT-CS06-CS-LF0007-FD	26 JUL 2000	14:00	5 g EnCore	3	None except cool to 4 C	BTEX by 8021B	N	
LF0007	UST-133AT-CS06-CS-LF0007-FD	26 JUL 2000	14:00	8 oz CWM	1	None except cool to 4 C	PAH's by 8310	N	
LF8001	UST-133AT-SP01-SP-LF8001-REG	26 JUL 2000	14:30	8 oz CWM	1	None except cool to 4 C	Deisel Range Organics by 8015B	N	
LF8001	UST-133AT-SP01-SP-LF8001-REG	26 JUL 2000	14:30	5 g EnCore	3	None except cool to 4 C	Gasoline Range Organics by 8015B	N	
LF8001	UST-133AT-SP01-SP-LF8001-REG	26 JUL 2000	14:30	8 oz CWM	1	None except cool to 4 C	Paint Filter	N	

STL KNOXVILLE

SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 12650
7-27-00CLIENT: It Corp. PROJECT: Fort McClellan Lot No.: AD62701S3

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

- | | YES | NO | NA |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. Sample Receipt: | | | |
| a. Do sample container labels match COC? (IDs, Dates, Times) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Is the cooler temperature within acceptance limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Were samples received with correct preservative (excluding Encore)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Were custody seals present/intact on cooler and/or containers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Were all of the samples listed on the COC received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Were all of the sample containers received intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Were containers received for VOAs received without headspace? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| h. Were samples received in the appropriate containers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| i. Did you check for residual chlorine, if necessary? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| j. Were samples received within 1/2 of the (QAMP) holding time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| k. Were samples screened for radioactivity? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| l. Were client's sample documents (RFA/COC) received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| m. Has the RFA/COC been relinquished? (Signed, Dated, Timed) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| n. Are test/parameters listed for each sample? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| o. Is the matrix of the samples noted? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| p. Is the date/time of sample collection noted? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| q. Is the client and project name/No. identified? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

SAMPLE RECEIVING ASSOCIATE: Mattew F. Howard DATE: 7/27/00

TO BE COMPLETED BY PROJECT MANAGER :

- | | YES | NO | NA |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. Project manager "Sample Greet": | | | |
| a. Quote number to be logged-in under <u>25476</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b. Informed Login associates of special instructions? <u>fax due 8/1/00</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. If custody seals were missing/not intact, was client notified? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

PROJECT MANAGER : QADATE: 7/27/00

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

- ☐ Client informed on _____ by _____. Person contacted: _____
☐ Noted actions in comments section above.
☐ No action necessary; process as is.

Project Manager: _____ Date: _____

STL KNOXVILLE
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST
LEGEND

Item	Condition
Cooler:	1a Not received, COC available 1b Leaking 1c Other: _____
Temperature:	2a Temp Blank = _____ 2b Cooler Temp = _____ (cooler temp should be used only if there is no temp blank)
Container:	3a Leaking 3b Broken 3c Extra 3d No labels 3e Headspace (VOA only) 3f Other: _____
Samples:	4a Samples received but not on COC 4b Samples not received but on COC 4c Holding time expired 4d Sample received with < ½ holding time remaining 4e Sample preservative: _____ 4f Other: _____
Custody Seals:	5a None 5b Not intact 5c Other: _____
Chain of Custody (COC):	6a Not relinquished by client 6b Incomplete information 6c Other: _____
Container Labels:	7a Doesn't match COC 7b Incomplete information 7c Marking smeared 7d Label torn 7e Other: _____
Other (8):	_____ _____ _____ _____